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                    * SKELETAL 6809 DISK DRIVER PACKAGE

                    * TECHNICAL SYSTEMS CONSULTANTS, INC
                    * BOX 2574
                    * WEST LAFAYETTE, INDIANA  47906
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                    *
                    * THE DRIVER ROUTINES PERFORM THE FOLLOWING
                    * 1. READ SINGLE SECTOR - DREAD
                    * 2. WRITE SINGLE SECTOR - DWRITE
                    * 3. VERIFY WRITE OPERATION - VERIFY
                    * 4. RESTORE HEAD TO TRACK 00 - RESTOR
                    * 5. DRIVE SELECTION - DRIVE
                    * 6. CHECK READY - DCHECK
                    * 7. QUICK CHECK READY - DQUICK
                    * 8. COLD START INITIALIZATION - DINIT
                    * 9. WARM START INITIALIZATION - DWARM
                    *

                    * SYSTEM CONSTANTS
                    *
                    * THIS SPACE IS WHERE ANY NECESSARY EQUATES MIGHT
                    * BE PLACED, SUCH AS DISK CONTROLLER REGISTER
                    * LOCATIONS, SECTOR LENGTH, ETC.
                    *


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DE00                        ORG     $DE00

                    * JUMP TABLE

DE00 7E   DE23      DREAD   JMP     READ
DE03 7E   DE28      DWRITE  JMP     WRITE
DE06 7E   DE2D      DVERFY  JMP     VERIFY
DE09 7E   DE31      RESTOR  JMP     RST
DE0C 7E   DE35      DRIVE   JMP     DRV
DE0F 7E   DE39      DCHECK  JMP     CHECK
DE12 7E   DE3F      DQUICK  JMP     QUICK
DE15 7E   DE1B      DINIT   JMP     INIT
DE18 7E   DE1F      DWARM   JMP     WARM

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                    * VARIABLE STORAGE

                    * IF ANY VARIABLES ARE REQUIRED, THEY MIGHT BE PLACED
                    * HERE.  THIS MIGHT INCLUDE VARIABLES LIKE CURRENT
                    * DRIVE, CURRENT TRACK FOR EACH DRIVE, OR TEMPORARY
                    * STORAGE LOCATIONS.

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                    * INIT
                    *
                    * INITIALIZES THE NECESSARY DRIVER VARIABLES.

DE1B 12             INIT    NOP             THIS ROUTINE IS CALLED
DE1C 12                     NOP             DURING FMS INITIALIZATION
DE1D 12                     NOP             AT COLD START
DE1E 39                     RTS

                    * WARM
                    *
                    * WARM START INITIALIZATION

DE1F 12             WARM    NOP             THIS ROUTINE IS CALLED
DE20 12                     NOP             DURING FMS INITIALIZATION
DE21 12                     NOP             AT WARM START
DE22 39                     RTS

                    * READ
                    *
                    * READ ONE SECTOR

DE23 12             READ    NOP             READS THE SECTOR POINTED
DE24 12                     NOP             TO BY TRACK IN 'A'
DE25 12                     NOP             AND SECTOR IN 'B'.
DE26 12                     NOP             'X' POINTS TO FCB.
DE27 39                     RTS

                    * WRITE
                    *
                    * WRITE ONE SECTOR

DE28 12             WRITE   NOP             WRITES THE SECTOR POINTED
DE29 12                     NOP             TO BY TRACK IN 'A'
DE2A 12                     NOP             AND SECTOR IN 'B'.
DE2B 12                     NOP             'X' POINTS TO FCB.
DE2C 39                     RTS
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                    * VERIFY
                    *
                    * VERIFY LAST TRACK WRITTEN

DE2D 12             VERIFY  NOP             THE SECTOR JUST
DE2E 12                     NOP             WRITTEN IS VERIFIED.
DE2F 12                     NOP             NO PARAMETERS ARE SUPPLIED.
DE30 39                     RTS

                    * RST
                    *
                    * RST RESTORES THE HEAD TO 00

DE31 12             RST     NOP             HEAD RESTORED TO TRACK
DE32 12                     NOP             ZERO ON DRIVE POINTED
DE33 12                     NOP             TO BY FCB AT 'X'.
DE34 39                     RTS

                    * DRV
                    *
                    * DRV SELECTS THE DRIVE.

DE35 12             DRV     NOP             THE DRIVE NUMBER FOUND
DE36 12                     NOP             IN FCB POINTED TO BY 'X'
DE37 12                     NOP             IS SELECTED.
DE38 39                     RTS

                    * CHECK
                    *
                    * CHECK FOR DRIVE READY

DE39 12             CHECK   NOP             THE DRIVE POINTED TO
DE3A 12                     NOP             BY FCB AT 'X' IS CHECKED
DE3B 12                     NOP             FOR A READY STATE AFTER
DE3C 12                     NOP             DELAYING FOR DRIVES TO
DE3D 12                     NOP             COME UP TO SPEED.
DE3E 39                     RTS

                    * QUICK
                    *
                    * QUICK CHECK FOR READY

DE3F 12             QUICK   NOP             THE DRIVE POINTED TO
DE40 12                     NOP             BY FCB AT 'X' IS CHECKED
DE41 12                     NOP             FOR READY STATE WITHOUT
DE42 12                     NOP             DELAYING FOR DRIVES TO
DE43 12                     NOP             COME UP TO SPEED.
DE44 39                     RTS

                            END
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